CLAIMS

1. A mechano-electrical fuse for a hand grenade (76), comprising a spring element for the storage of mechanical energy, and a drive device connected to the spring element for driving an electrical generator (28) by means of the mechanical energy stored in the spring element, wherein the generator (28) is connected together with a detonator (46) for the activation thereof, with which a booster charge (48) is associated, wherein a barrier (40) is provided between the detonator (46) and the booster charge (48),

characterised in that

the spring element is formed by the tensioning spring (24) associated with the handle lever (18) of the hand grenade (76) and the drive device has a cable line (68) which is fixed with its one end (70) to the shaft (30) of the generator (28) and is wound with a number of turns (72) around the generator shaft (30) and which is mounted with its second end (74) remote therefrom to the lever (18), wherein fixed to the generator shaft (30) is a flywheel mass (32) which is fixed releasably in the fuse housing (16) by means of a shearing element (92).

2. A mechano-electrical fuse according to claim 1 characterised in that the electrical generator (28) is connected together with the detonator (46) by way of an electronic time delay circuit (56).

3. A mechano-electrical fuse according to claim 2 characterised in that the time delay of the time delay circuit (56) is adjustable in a given time window.

4. A mechano-electrical fuse according to claim 2 or claim 3 characterised in that the time delay circuit (56) is provided on a circuit body (52) provided with a compartment (50) in which the detonator (46) is immovably arranged.

5. A mechano-electrical fuse according to claim 4 characterised in that the time delay circuit (56) is provided on two circuit boards (60, 62) and the circuit body (52) has a frame (54) on which the two circuit boards (60, 62) are mounted facing away from each other and spaced from each other.

6. A mechano-electrical fuse according to one of claims 1 to 5 characterised in that the generator shaft (30) is connected by means of a step-down transmission (34) to a barrier displacement shaft (36), the barrier (40) being fixed to the end (38) of the barrier displacement shaft, which is remote from the step-down transmission (34).

7. A mechano-electrical fuse according to claim 6 characterised in that the barrier displacement shaft (36) extends through the circuit body (52) and the detonator compartment (50) between the two circuit boards (60, 62).

8. A mechano-electrical fuse according to claim 6 characterised in that the barrier (40) has at least one barrier disc from which the barrier displacement shaft (36) centrally projects and which has an eccentrically provided through hole which in the armed position of the hand grenade (76) is aligned with the detonator (46).

9. A mechano-electrical fuse according to claim 8 characterised in that the barrier (40) has two barrier layers (42 and 44) of conforming configuration and of differing thicknesses.

10 A mechano-electrical fuse according to claim 9 characterised in that the barrier disc (42) towards the detonator (46) is of a greater wall thickness than the barrier disc (44) remote from the detonator (46).